NOVEMBER/DECEMBER 2024

23PCS33 — NETWORK SECURITY AND CRYPTOGRAPHY

Time : Three hours Maximum : 75 marks

Shanmuga Industries Arts & Science College
T.V.Malai

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What is Computer Security?
2. What is Blowfish?
3. Define the term – Digital signature.
4. Define the term – Message authentication.
5. What is PGP in Email security?
6. Define the term - IF Security.
7. What is Web security?
8. Define the term – Virus.
9. What is Water marking?
10. What is DNA Cryptography?

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Write short notes on Stream cipher and Block cipher.

Or

(b) Describe the IDEA encryption algorithm.

12. (a) Discuss on Elliptic Curve Cryptography.

Or

(b) Explain the Hash and Mac algorithm.

13. (a) Describe the basics of Kerberos.

Or

(b) Discuss on X.509 Certificates.

14. (a) Explain the Password management procedure.

Or

(b) Describe about Secure Electronic Transaction.

15. (a) Discuss on Water marking fundamentals.

Or

(b) Explain the basics of Stenography.

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SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Discuss on Security attacks and Security services.

17. Explain the working of RSA algorithm.

18. Describe the fundamentals of S/MIME.

19. Discuss on Firewall design principles.

20. Explain the Network security forensics and Security audit procedure.

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